

WHAT IS CLAIMED IS:

- 1 1. A racket comprising:
 - 2 a frame with an elongated handle defining a longitudinal main axis;
 - 3 a head connected to the elongated handle;
 - 4 said head having parallel longitudinal sides and parallel transversal sides;
 - 5 said head having a racket face, to be spanned by strings;
 - 6 said head having a means for securing strings to the frame;
 - 7 a plurality of transversal strings, all being of substantially identical length, running
 - 8 essentially parallel to each other and generally perpendicular to said longitudinal axis and
 - secured to the frame; and
 - 9 a plurality of longitudinal strings, all being of substantially identical length, running
 - 10 essentially parallel to each other and parallel to said longitudinal axis and secured to the
 - 11 frame, the transversal strings and longitudinal strings together covering the entire racket
 - 12 face.
- 13 2. The racket defined in claim 1 wherein said head and said racket face are rectangular
- 14 shaped.
- 15 3. The racket defined in claim 1 wherein the transversal sides of said racket face curve
- 16 upward with the sides remaining parallel throughout their length so that said longitudinal
- 17 strings continue to all be the same length.
- 18 4. The racket defined in claim 1 wherein the sides of said racket face curve slightly outward,
- 19 having such a curvature so that the string tension brings the sides back to the substantially
- 20 straight and parallel position.
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- 1 5. The racket defined in claim 1 wherein the transversal sides of said racket face curve
2 downward and the sides remain parallel throughout their length so that said transversal
3 strings continue to all be the same length.
- 4 6. The racket defined in claim 1 wherein the distances between the intersection points of all
5 of said longitudinal strings and all of said transversal strings is equal.
- 6 7. The racket defined in claim 1 wherein the width of said racket face is 12", the length of
7 said racket face is 14.5", the length of said elongated handle is 8" and the total length of
8 the racket is 28".
- 9 8. The racket defined in claim 3 wherein the maximum curvature of the transversal sides of
10 said racket face is 1".
- 11 9. The racket defined in claim 4 wherein the maximum curvature of the sides of said racket
12 face is less than 0.5".
- 13 10. The racket defined in claim 1 wherein the space between the longitudinal strings varies
14 and the space between the transversal strings varies.
- 15 11. The racket defined in claim 1 wherein the tension and/or mass values of said longitudinal
16 strings and said transversal strings are selected so that the vibrational frequencies of the
17 strings are equal.
- 18 12. The racket defined in claim 1 wherein the tension and/or mass values of said longitudinal
19 strings and said transversal strings are selected in accordance with desired ball response
20 characteristics.
- 21 13. The racket of claim 1 wherein said racket is a tennis racket, a racquetball racket, a
22 badminton racket or a squash racket.